Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1	160.00	2.60	0.05	20.80			
	1	103.00	2.00	0.05	10.30			
					316.43	**Cum**	**7903.22**	**2500777.08**
RRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting th old gunny bags and / or compressed air to receive bituminous treatment including cost of all aterials, labour, HOM of machineries complete as per specifications. MORTH specification clause)1. (P.No.161 & I.No.21.2)								
asic rate	3.00							
1% AD-HOC	0.33							
ub Total-1	3.33							
% AW	0.20							
ub Total-2	3.53							
	1	142.00	4.60		653.20			
	1	105.00	4.30		451.50			
	1	128.00	4.40		563.20			
	1	100.00	4.30		430.00			
	1	88.00	4.30		378.40			
	1	116.00	4.30		498.80			
	1	266.00	6.40		1702.40			
	1	145.00	6.00		870.00			
	1	68.00	5.20		353.60			
1st main	1	125.00	4.15		518.75			
7th cross	1	65.00	4.70		305.50			
cross road -1	1	65.00	4.60		299.00			
cross road -2	1	65.00	4.70		305.50			
cross road -3	1	160.00	4.70		752.00			
cross road -4	1	103.00	5.30		545.90			
3rd cross					**8627.75**	**Sqm**	**3.53**	**30,454.23**
KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
Basic rate	11.00							
11% AD-HOC	1.21							
Sub Total-1	12.21							
6% AW	0.73							
Sub Total-2	12.94							
	1	142.00	4.60		653.20			
	1	105.00	4.30		451.50			
	1	128.00	4.40		563.20			
	1	100.00	4.30		430.00			
	1	88.00	4.30		378.40			
	1	116.00	4.30		498.80			
	1	266.00	6.40		1702.40			
	1	145.00	6.00		870.00			
	1	68.00	5.20		353.60			
1st main	1	125.00	4.15		518.75			
7th cross	1	65.00	4.70		305.50			
cross road -1	1	65.00	4.60		299.00			
cross road -2	1	65.00	4.70		305.50			
cross road -3	1	160.00	4.70		752.00			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
l cross	1	103.00	5.30		545.90			
					8627.75	**Sqm**	**12.94**	**111665.52**

RRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with echanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% ; 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required vel and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired mpaction as per MORTH Specification clause No.500.9 complete in all respects complete as per ecifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)

ısic rate	7659.00							
1% AD-HOC	842.49							
ıb Total-1	8501.49							
% AW	510.09							
ıb Total-2	9011.58							
	1	142.00	4.60	0.04	26.13			
	1	105.00	4.30	0.04	18.06			
	1	128.00	4.40	0.04	22.53			
	1	100.00	4.30	0.04	17.20			
	1	88.00	4.30	0.04	15.14			
	1	116.00	4.30	0.04	19.95			
	1	266.00	6.40	0.04	68.10			
	1	145.00	6.00	0.04	34.80			
st main	1	68.00	5.20	0.04	14.14			
th cross	1	125.00	4.15	0.04	20.75			
ross road -1	1	65.00	4.70	0.04	12.22			
ross road -2	1	65.00	4.60	0.04	11.96			
ross road -3	1	65.00	4.70	0.04	12.22			
ross road -4	1	160.00	4.70	0.04	30.08			
3rd cross	1	103.00	5.30	0.04	21.84			
					345.11	**Cum**	**9011.58**	**3109986.17**

Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (P.No-25, I No-5.30)

Basic rate	313.00							
11% AD-HOC	34.43							
Sub Total-1	347.43							
6% AW	20.85							
Sub Total-2	368.28							
missing & damaged	2	150.00			300.00			
B = A/0.45				**A**	**300.00**			
				B	**667.00**	**Nos**	**368.28**	**245639.96**

KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-183, I No-24.1)

Basic rate	60.00							
11% AD-HOC	6.60							
Sub Total-1	66.60							
6% AW	4.00							
Sub Total-2	70.60							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2	200.00	0.35		140.00			
					140.00	Sqm	70.60	9,883.44

RRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass
ads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm
ick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of
rface to level, uniform and free from streaks and holes complete as per specifications. MORTH
ecification No. 803, No. 1974 (P.No.185 & I.No.24.15)

asic rate	512.00							
1% AD-HOC	56.32							
ub Total-1	568.32							
% AW	34.10							
ub Total-2	602.42							
	2	142.00	0.10		28.40			
	2	105.00	0.10		21.00			
	2	128.00	0.10		25.60			
	2	100.00	0.10		20.00			
	2	88.00	0.10		17.60			
	2	116.00	0.10		23.20			
	2	266.00	0.10		53.20			
	2	145.00	0.10		29.00			
	2	68.00	0.10		13.60			
	2	125.00	0.10		25.00			
	2	65.00	0.10		13.00			
	2	65.00	0.10		13.00			
	2	65.00	0.10		13.00			
	2	160.00	0.10		32.00			
	2	103.00	0.10		20.60			
					348.20	Sqm	602.42	209762.37
							Total Construction Cost	9849368.77
							DPR & PMC Charges	150000.00
							Sub Total	9999368.77
							Utility Shifting, Miscellaneous, Rounding off	631.23
							GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

Assistant Engineer

Asst. Executive Engineer,

Executive Engineer,
Yelahanka Division,
BBMP Bangalore
7/2/19

Administrative Approval

Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

E.E. (Project)

Technical Sanction

Accorded For 100.00 lakhs only
Head of A/C...P-2415...
CER NO :...640..... Dt:08/02/2019

TA CE (YNK)

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

ıe of Work: Improvements to roads and drains SFS, B sector opposite RTO shopping complex in ward No. 04

					Estimate Cost Rs.			150.00 Lakhs
Description of Items	**No**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate**	**Amount**
Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
Basic rate	76.00							
11% AD-HOC	8.36							
Sub Total-1	84.36							
6% AW	5.06							
Sub Total-2	89.42							
Top slab								
7th B main	2	248.00	1.00		496.00			
7th B cross	2	190.00	1.00		380.00			
12th B main	2	153.00	1.00		306.00			
4th B cross	2	165.00	1.00		330.00			
8th B main	2	70.00	1.00		140.00			
cross road	2	73.00	1.00		146.00			
6th B main	2	250.00	1.00		500.00			
Indira canteen road	2	412.00	1.00		824.00			
13th B main	2	422.00	1.00		844.00			
11th B cross	2	144.00	1.00		288.00			
Drain slab								
cross road	2	248.00	1.65		818.40			
1st B main	2	190.00	1.65		627.00			
14th B cross	2	153.00	1.65		504.90			
Adheeti opticals	2	165.00	1.65		544.50			
12th B main	2	70.00	1.65		231.00			
3rd B main	2	73.00	1.65		240.90			
13th B cross	2	250.00	1.65		825.00			
Indira canteen road	2	412.00	1.65		1359.60			
13th B main	2	422.00	1.65		1392.60			
11th B cross	2	144.00	1.65		475.20			
Total Qty					**11273.10**			
total Qty					**3381.93**			
					3381.93	**Sqm**	**89.42**	**302417.59**
2 Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
Basic rate	2100.00							
10% of Total qty of Item no -1 of precast slab					229.80			
					229.80	**Sqm**	**2100.00**	**482580.00**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
Basic rate	628.00							
11% AD-HOC	69.08							
Sub Total-1	697.08							
6% AW	41.82							
Sub Total-2	738.90							
Consider 15% of Total qty of Item no - 1					1690.97			
					1690.97	**Sqm**	**738.90**	**1249462.16**
KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
Basic rate	82.00							
11% AD-HOC	9.02							
Sub Total-1	91.02							
6% AW	5.46							
Sub Total-2	96.48							
10km ld & lt, transport	100.00							
Sub Total-3	196.48							
7th B main	2	248.00	0.55	0.50	136.40			
7th B cross	2	190.00	0.55	0.50	104.50			
12th B main	2	153.00	0.55	0.50	84.15			
4th B cross	2	165.00	0.55	0.50	90.75			
8th B main	2	70.00	0.55	0.50	38.50			
cross road	2	73.00	0.55	0.50	40.15			
6th B main	2	250.00	0.50	0.50	125.00			
Indira canteen road	2	412.00	0.50	0.50	206.00			
13th B main	2	422.00	0.50	0.50	211.00			
11th B cross	2	144.00	0.50	0.50	72.00			
UGD Cut portion								
7th B main	1	248.00	1.20	0.40	119.04			
7th B cross	1	190.00	1.20	0.40	91.20			
12th B main	1	153.00	1.20	0.40	73.44			
4th B cross	1	165.00	1.20	0.40	79.20			
8th B main	1	70.00	1.20	0.40	33.60			
cross road	1	73.00	1.20	0.40	35.04			
6th B main	1	250.00	1.20	0.40	120.00			
Indira canteen road	1	412.00	1.20	0.40	197.76			
13th B main	1	422.00	1.20	0.40	202.56			
11th B cross	1	144.00	1.20	0.40	69.12			
Bad reaches	10	15.00	6.00	0.40	360.00			
culvert	2	8.00	1.50	1.00	24.00			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						2513.41	Cum	196.48	493837.81
	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							
	6% AW	336.06							
	Sub Total-2	5937.12							
	culvert	2	8.00	1.50	0.15	3.60			
						3.60	Cum	5937.12	21,373.64
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
	Basic rate	5005.00							
	11% AD-HOC	550.55							
	Sub Total-1	5555.55							
	6% AW	333.33							
	Sub Total-2	5888.88							
	culvert	4	8.00	0.45	0.70	10.08			
						10.08	Cum	5888.88	59,359.94
7	KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
	Basic rate	5441.00							
	11% AD-HOC	598.51							
	Sub Total-1	6039.51							
	6% AW	362.37							
	Sub Total-2	6401.88							
	culvert	4	8.00	0.45	0.10	1.44			
						1.44	Cum	6401.88	9,218.71
8	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- (Data rate)								
	Basic rate	5111.00							
		2	8.00	1.50		24.00			
						24.00	Sqm	5111.00	122664.00

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
	Basic rate	1571.00							
	11% AD-HOC	172.81							
	Sub Total-1	1743.81							
	6% AW	104.63							
	Sub Total-2	1848.44							
	UGD Cut portion								
	7th B main	1	248.00	1.20	0.15	44.64			
	7th B cross	1	190.00	1.20	0.15	34.20			
	12th B main	1	153.00	1.20	0.15	27.54			
	4th B cross	1	165.00	1.20	0.15	29.70			
	8th B main	1	70.00	1.20	0.15	12.60			
	cross road	1	73.00	1.20	0.15	13.14			
	6th B main	1	250.00	1.20	0.15	45.00			
	Indira canteen road	1	412.00	1.20	0.15	74.16			
	13th B main	1	422.00	1.20	0.15	75.96			
	11th B cross	1	144.00	1.20	0.15	25.92			
	Bad reaches	10	15.00	6.00	0.15	135.00			
						517.86	**Cum**	**1848.44**	**957232.41**
10	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	UGD Cut portion								
	7th B main	1	248.00	1.20	0.225	66.96			
	7th B cross	1	190.00	1.20	0.225	51.30			
	12th B main	1	153.00	1.20	0.225	41.31			
	4th B cross	1	165.00	1.20	0.225	44.55			
	8th B main	1	70.00	1.20	0.225	18.90			
	cross road	1	73.00	1.20	0.225	19.71			
	6th B main	1	250.00	1.20	0.225	67.50			
	Indira canteen road	1	412.00	1.20	0.225	111.24			
	13th B main	1	422.00	1.20	0.225	113.94			
	11th B cross	1	144.00	1.20	0.225	38.88			
	Bad reaches	10	15.00	6.00	0.225	202.50			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					776.79	Cum	1962.57	1524503.82
Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/lt No.21.6)								
Basic rate	26.00							
11% AD-HOC	2.86							
Sub Total-1	28.86							
6% AW	1.73							
Sub Total-2	30.59							
UGD Cut portion								
7th B main	1	248.00	1.20		297.60			
7th B cross	1	190.00	1.20		228.00			
12th B main	1	153.00	1.20		183.60			
4th B cross	1	165.00	1.20		198.00			
8th B main	1	70.00	1.20		84.00			
cross road	1	73.00	1.20		87.60			
6th B main	1	250.00	1.20		300.00			
Indira canteen road	1	412.00	1.20		494.40			
13th B main	1	422.00	1.20		506.40			
11th B cross	1	144.00	1.20		172.80			
Bad reaches	10	15.00	6.00		900.00			
Profile correction								
7th B main	1	248.00	2.40		595.20			
7th B cross	1	190.00	2.10		399.00			
12th B main	1	153.00	2.00		306.00			
4th B cross	1	165.00	3.00		495.00			
8th B main	1	70.00	2.70		189.00			
cross road	1	73.00	2.50		182.50			
6th B main	1	250.00	2.00		500.00			
Indira canteen road	1	412.00	2.50		1030.00			
13th B main	1	422.00	2.20		928.40			
11th B cross	1	144.00	2.25		324.00			
					8401.50	Sqm	30.59	257015.33
12 KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 lt.No.21.17.6)								
Basic rate	6717.00							
11% AD-HOC	738.87							
Sub Total-1	7455.87							
6% AW	447.35							
Sub Total-2	7903.22							
UGD Cut portion								
7th B main	1	248.00	1.20	0.05	14.88			